

an inner tube operably connected to said central member, said inner tube located within said intermediate tube defining a second annular flow path between said intermediate tube and said inner tube and a tubular flow path within said inner tube;

an input mixture flow path for receiving said input mixture, said input mixture flow path formed in said housing and communicating with one of said first and second annular flow paths;

a light material flow path communicating with the other of said first and second annular flow paths; and

a heavy material flow path communicating with said tubular flow path.

23. A centrifuge for accepting an input mixture and for separating a light material that is within the input mixture from a heavy material that is within the input mixture, comprising:

a central member rotatable on an axis of rotation;

a first arm assembly mounted on one side of said central member;

a second arm assembly mounted on an opposite side of said central member;

said first and second arm assemblies rotatable in a plane that extends generally perpendicular to said axis of rotation;

each of said first and second arms having;

an outer housing having a closed outer end and an inner end mounted to said central member;

an intermediate tube having an open outer end and an inner end mounted to said central member;

an inner tube having an open outer end and an inner end mounted to said central member;

said outer housing, intermediate tube and inner tube being concentrically arranged;

said inner tube having a given length;

said intermediate tube having a length that is less than said given length; and

said outer end of said outer housing being physically spaced from said outer end of said intermediate tube and from said outer end of said inner tube;

an input mixture flow path communicating with a cylindrical space between said intermediate tube and said inner tube;

a heavy material flow path communication with a space within said inner tube;

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a light material flow path communication with a cylindrical space between said intermediate tube and said outer housing;

a first conveyer screw located within said inner tube of said first arm assembly;
a second conveyer screw located within said inner tube of said second arm assembly;
first drive means connected to effect rotation of said body member and said first and second arm assemblies about said axis of rotation; and
~~multiple~~
second-speed controllable drive means connected to effect rotation of said first and second conveyer screws.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "Version With Marking to Show Changes Made".

It is believed that no fees are required with this amendment. However, any fee deficiency can be charged to Deposit Account 04-1415.

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Respectfully submitted,



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